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24. the very small Vessels] *The same with those mentioned Note 21.*
 25. Bladders] *See Dr. Grews Description of the Pith, and therein of these Bladders, Anat. of Roots part. 2. And Anat. of Trunks, part. 2. Ch. 4.*

26. darkish Globules] *See the same Ch. p. 34.*

27. Extraordinary smallness.] *See the same Ch. 32, 33 Note, that these Bladders, whereof the Pith consists, Sign. Malpighi doth also observe; but not the Fibres, of which Fibres (most admirably Woven up-together) Dr. Grew hath discovered the said Bladders to be composed. See the same Ch. p. 35.*

Eclipsis Solis

Anno 1675, die 23 Junii mane st. n. observ.

G E D A N I,

à

Joh. Hevelio.

UT ut non omnes & singulas phases in hac Eclipsi, ab ipso initio, ob frequentissimas densissimasque Nubes hinc Gedani observare nobis obtigerit; attamen precipuas crescentes ex voto annotare licuit. Sol oriens clarissimus quidem extitit, sic ut ipsum initium admodum distinctè, hor. sc. 4. 44', deprehensum fuerit; paulò autem post, horâ sc. 5. 6' nubes Solem nobis planè eripiebant, ut nihil quicquam adhuc usque 5. 32' deprehendere licuerit, ut ut vigiles semper oculos ad Tabulam observatoriam direxerimus. Ex improvviso tamen præter omnem spem, horâ, ut dixi, 5. 32' nubes Solem rursus deserebant, ut ejus Phases omnes subsequenter, à 1 ad 23, uti ex Schemate liquet, accuratè describere potuerim. Prior phasis ante maximam obscuratiorem adhuc annotata est; maxima namque obscuratio circa tertiam phasim, horâ videlicet 5. 39'. primum incidit, prout pariter ex ipso typo videre est; Finis contigit hora 6. 33'. 30". Quantitas Eclipses observata est 6 digit. 42', ad 37' scilicet major, quàm calculus Rudolphinus eam promiserat; imò Initium & Finis satis evidenter secundum dictum calculum in hac Eclipsi aberravit; quippe liquidum est, ad 12 integra ferè minuta tardiùs incidisse: Semidiameter quoque Lunæ calculo hac vice non respondet; siquidem circa hor. 5. 55', alto scilicet Sole 15° ferè, Semidiam. Lunæ non nisi 14'. 37" extitit; cum tamen calculus eam 15'. 29" monstraverit, datâ nempe semidiametro Solis 15'. Hec sunt, quæ observata in hac Eclipsi. fuere.

	Calculus Rudolphinus.			Observatio.			Differentia.
	Hor.	'	"	Hor.	'	"	
Initium Gedani,	4	31	42	4	44	0	12
Maxima obscur.	5	28	20	5	39	0	11
Finis,	6	24	58	6	33	30	9
Duratio,	1	53	16	1	50	0	3
Quantitas, vj. digit.	5'			vj. dig.	42'		37

Eclips.

Eclips. Sol.

Anno 1675, die 23 Junii observ.

G E D A N I.

Ordo Phatum	Animavertenda.	Temp.ex sciat.			Tempore Correcto.		
		Hor.	"	"	Hor.	"	"
	<i>Solis centrum in horizonte,</i>				3	21	30
	<i>Nihil in Sole,</i>				3	56	30
	<i>Sol sub nubibus,</i>				4	6	0
	<i>Nihil in Sole,</i>	4	35	0	4	35	0
	<i>Nihil in Sole,</i>	4	37	0	4	37	10
	<i>Nihil in Sole,</i>	4	40	0	4	40	0
	<i>Nihil adhuc,</i>				4	42	0
	<i>Initium,</i>				4	44	0
	<i>Nubes Solem plane occultarunt,</i>				4	54	30
	<i>Sol nusquam apparuit,</i>				5	6	0
1	<i>6½ digiti ferè obscurati erant,</i> <i>cùm Sol rursus emicuit.</i>				5	32	0
2	<i>6½ digiti.</i> dig.				5	34	0
3	<i>Maxima ferè obscurat.</i> 6 42				5	38	50
4					5	40	30
5					5	42	0
6	<i>6½ digiti.</i>				5	43	30
7	<i>6½ digiti.</i>				5	47	30
8	<i>6 digiti.</i>				5	49	30
9	<i>5½ dig. Diamet. D^o, 14' 37"</i>				5	55	0
10	<i>5½ dig.</i>				5	57	0
11	<i>5 ferè digiti,</i>				5	59	30
12	<i>4½ digiti.</i>				6	2	0
13	<i>4½ dig.</i>				6	4	15
14	<i>4 digiti.</i>				6	6	30
15	<i>3½ dig.</i>				6	9	15
16	<i>3½ dig.</i>				6	14	35
17	<i>2½ dig.</i>				6	18	10
18	<i>2½ dig.</i>				6	20	0
19	<i>2 dig.</i>				6	22	0
20	<i>1½ dig.</i>				6	24	0
21	<i>1½ dig.</i>				6	25	25
22	<i>1 dig.</i>				6	27	10
23	<i>½ digiti.</i>				6	30	30
	<i>Finis.</i>				6	33	30
		Altitudo ☉.					
		0	"				
	<i>Altitudo ☉</i>	25	20	0	6	41	22
	<i>Altitudo ☉</i>	26	36	0	6	50	4
	<i>Altitudo ☉</i>	27	40	0	6	57	22
	<i>Altitudo ☉</i>	28	5	0	7	0	14

Sofar the Learn'd *Hevelius*, who was also pleased to communicate his Observation of the Figure of *Saturn*, as it appeared to him in *August*, 1675. to be seen in *Tab. I. Fig. 3.* Mr,

Tab.1.

Trans. Numb. 127.

